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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,030	12/21/2006	Jorgen Ekelof	10400C-000202/US	5555
	7590 07/07/200 CKEY & PIERCE, P.L	EXAMINER		
P.O. BOX 8910	·	TUGBANG, ANTHONY D		
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			3729	
			MAIL DATE	DELIVERY MODE
			07/07/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/562,030	EKELOF ET AL.				
Office Action Summary	Examiner	Art Unit				
	A. Dexter Tugbang	3729				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period variety or period for reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>23 A</u>	pril 2009.					
	action is non-final.					
· <u> </u>						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-7,9-11 and 13-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-7,9-11 and 13</u> is/are allowed.						
6)⊠ Claim(s) <u>14-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. ☐ Certified copies of the priority documents have been received in Application No3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	2 2222 23pi32 iist 1300iiu					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Response to Amendment

The applicant(s) amendment filed on April 23, 2009 has been fully considered and made of record.

Drawings

The drawings filed on December 22, 2005 have been accepted and approved by the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14 through 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukunaga et al in view of Wermine 1,763,114.

Fukunaga discloses the final structure of a toroidal transformer comprising: a hollow bobbin (e.g. 4, 5 in Fig. 6) that includes two tubes of electrically insulating material having a substantially rectangular shaped interior hollow cross-section; a coil (e.g. 2) arranged around a periphery of the bobbin; and a core formed by a ribbon (e.g. 101, 102) wound inside the hollow bobbin.

Regarding Claim(s) 15 and 16, the transformer structure of Fukunaga is toroidal (col. 1, lines 6-9) that can be used in electrical equipment of adaptors (e.g. appliances, see col. 1, lines 20-23).

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Fukunaga does not teach that within the final structure, the bobbin material is "flexible". However, it is known in the transformer/inductor art, that electrically insulating materials can be pliable and flexible for the advantages of allowing it to be easily shaped and support ribbon material.

Wermine shows such a conventional feature where a hollow bobbin (e.g. 15) is made of a flexible insulating material (page 2, lines 63-70) that supports ribbon (e.g. 10).

It would have obvious to one of ordinary skill in the art at the time the invention was made to have modified the bobbin material of Fukunaga by forming it with the flexible insulating materials of Wermine, for all of the associated advantages taught by Wermine.

Response to Arguments

The applicant(s) arguments filed April 23, 2009 have been fully considered, but have not been deemed to be found as persuasive.

The applicant(s) argue that Fukunaga et al do not teach a tube that forms the bobbin. The examiner most respectfully disagrees. It is clear from Figure 6 of Fukunaga that the bobbin (halves 4, 5) is hollow and is shaped as a U-shaped tube having walls that form a rectangular shaped interior hollow cross-section. With respect to the term of "flexible", this argument is met by the teachings of Wermine. Wermine does teach of completely different reason for making bobbin material flexible as compared to the applicant(s) reasoning. However, the applicant(s)

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reasoning for having the bobbin material be flexible has no bearing on Claims 14 through 16, being that patentability of these claims are directed to the final structure, not how the structure is made.

Allowable Subject Matter

Claims 1 through 7, 9 through 11 and 13 are allowed.

Conclusion

The applicant(s) amendment (filed on April 23, 2009) has necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 571-272-4570. The examiner can normally be reached on Monday - Friday 8:15 am - 4:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on 571-272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. Dexter Tugbang/ Primary Examiner Art Unit 3729

July 5, 2009